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ABSTRACT OF THE DISCLOSURE

The present invention facilitates overall system performance by balancing system resource utilization and network throughput. The invention analyzes packets received from host software selects one or more of buffers to coalesce into a single, coalesced buffer. The selection is based upon an initial fragment size selected to facilitate overall system performance. The coalesced buffer and non-coalesced buffers, are passed to a network device for transmission.

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